

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/722,929
				Filing Date	11/26/2003
				First Named Inventor	Rynd
				Art Unit	1791
				Examiner Name	Wollschlager
Sheet	1	of	6	Attorney Docket Number	25226A

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		2,365,086	12/12/1944	Kamowski	
		3,574,644	4/13/1971	Olstowski et al.	
		4,301,040	11/17/1981	Berbeco	
		4,385,156	5/1/1983	Ingram et al.	
		4,996,109	2/26/1991	Krieg et al.	
		5,130,342	7/14/1992	McAllister et al.	
		5,550,170	8/1/1996	Trager et al.	
		5,679,718	10/21/1997	Suh et al.	
		5,719,199	2/17/1998	Wallace et al.	
		5,779,775	7/14/1998	Kuwabara	
		5,853,752	12/29/1998	Unger et al.	
		5,912,279	6/15/1999	Hammel et al.	
		5,993,707	11/20/1999	Chaudhary et al.	
		6,048,909	4/11/2000	Chaudhary et al.	
		6,093,752	7/25/2000	Park et al.	
		6,130,265	10/10/2000	Glueck et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Ts
		Country Codes-Number 4-Kind Codes (if known)				
		DE 199 07 663	8/24/2000	BASF		
		DE 199 10 257	9/21/2000	Schwenk		
		DE 2004 019708	11/17/2005	Stork et al.		
		EP 0 729 999	4/9/1996	Okisaki et al.		
		EP 0 863 175	9/9/1998	Hahn et al.		
		EP 01214372	12/28/2005	Duffy		

Examiner Signature	/Jeff Wollschlager/	Date Considered	12/30/2009
--------------------	---------------------	-----------------	------------

*EXAMINER Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kind's Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/722,929
				Filing Date	11/26/2003
				First Named Inventor	Rynd
				Art Unit	1791
				Examiner Name	Wollschlager
Sheet	2	of	6	Attorney Docket Number	25226A

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		6,133,333	10/17/2000	Chaudhary et al.	
		6,174,471	1/16/2001	Park et al.	
		6,197,233	3/6/2001	Mason et al.	
		6,213,540	4/10/2001	Tusim et al.	
		6,231,795	5/15/2001	Chaudhary et al.	
		6,242,540	6/1/2001	Crevecoeur et al.	
		6,340,713	1/22/2002	Gluck et al.	
		6,350,789	2/26/2002	Miller et al.	
		6,355,341	3/12/2002	Chaudhary et al.	
		6,362,242	3/26/2002	Gluck et al.	
		6,387,968	5/14/2002	Gluck et al.	
		6,417,240	7/9/2002	Park	
		6,420,442	7/16/2002	Dietzen et al.	
		6,521,672	2/18/2003	Gluck et al.	
		2001/0036970	11/1/2001	Park	
		2002/0041955	4/11/2002	Watanabe et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Ts
		Country Codes-Number 4-Kind Codes (if known)				
		EP 0515125	11/25/1992	York		
		EP 0675918	9/27/2000	Reedy et al.		
		EP 0921148	2/23/2000	Eschenlauer et al.		
		EP 0922554	6/25/2003	Eschenlauer et al.		
		EP 1 205 437	5/15/2002	Osawa		
		EP 1 209 189	5/29/2002	Kresta		

Examiner Signature	/Jeff Wollschlager/	Date Considered	12/30/2009
-----------------------	---------------------	--------------------	------------

*EXAMINER Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/722,929
				Filing Date	11/26/2003
				First Named Inventor	Rynd
				Art Unit	1791
				Examiner Name	Wollschlager
Sheet	3	of	6	Attorney Docket Number	25226A

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2,3,4,5,6,7}			
		2002/0086908	7/1/2002	Chou et al.	
		2002/0121717	9/5/2002	Chaudhary et al.	
		2002/0155270	10/24/2002	Chaudhary et al.	
		2002/0168509	11/14/2002	De Simone et al.	
		2003/0082343	5/1/2003	Brucker	
		2003/0162852	8/28/2003	Chaudhary et al.	
		2003/0175497	9/18/2003	Kobe et al.	
		2004/0167240	8/26/2004	Burgun et al.	
		2004/0209782	10/21/2004	Zhang et al.	
		2005/0048276	3/3/2005	Wilson	
		2005/0112356	5/26/2005	Rynd et al.	
		2006/0148916	7/6/2006	Loh et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ₆
		Country Codes-Number 4-Kind Codes (if known)				
		EP 620 246	10/19/1994	Algostat		
		EP 97/02457	10/10/2000	Glueck et al.		
		EP 99/04867	5/7/2002	Glueck et al.		
		WO 1999/047592	9/23/1999	Park et al.		
		WO 2000/034363	6/15/2000	Chaudhary et al.		
		WO 2000/034365	6/15/2000	Chaudhary et al.		

Examiner Signature	/Jeff Wollschlager/	Date Considered	12/30/2009
--------------------	---------------------	-----------------	------------

*EXAMINER Initial If reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO

Complete if Known

Application Number	10/722,929
Filing Date	11/26/2003
First Named Inventor	Rynd
Art Unit	1791
Examiner Name	Wollschlager
Attorney Docket Number	25226A

Sheet	5	of	6
-------	---	----	---

[illegible]

Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ₆
		Country Codes-Number 4-Kind Codes(if known)				
		WO 2006/073712	7/13/2006	Loh et al.		
		WO 2008/005022	1/10/2008	Loh et al.		
		WO 97/31053	8/28/1997	Karande et al.		
		WO 98/03581	1/29/1998	Creazzo et al.		
		WO 99/31170	6/24/1999	Chaudhary et al.		

12/30/2009

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/722,929		
		Filing Date	11/26/2003		
		First Named Inventor	Rynd		
		Art Unit	1791		
		Examiner Name	Wollschlager		
Sheet	6	of	6	Attorney Docket Number	25226A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		International Search Report PCT/US2005/045291 dated 5/12/2006	
		International Search Report PCT/US2006/035056 dated 2/20/2008	
		International Search Report PCT/US2008/058543 dated 7/23/2008	
		Zhang, et al., Preparation and Combustion Properties of Flame Retardant SBA Copolymer/Graphite Oxide Nanocomposites, Macromol, Mater Eng., March 2004, 289, 355-59.	
		Cassegneau, et al., Preparation and Characterization of Ultrathin Films Layer-by-Layer Self Assembled from graphite Oxide Nanoplatelets and Polymer, Langmuir, 2000, 16, 7318-24.	
		Guo-Hua Chen, Da-Jun Wu, Wen-Gui Weng and Wen-Li Yan; Dispersion of Graphite Nanosheets in a Polymer Matrix and the Conducting Property of the Nanocomposites; Polymer Engineering and Science, Dec. 2001, Vol 41, No. 12; pp 2148-54.	
		Pan, Y.X., Yu, Z.Z., Ou, Y.C., Hu, G.H.; A new process of fabricating electrically conducting nylon 6/graphite nanocomposites via intercalation polymerization, Journal of Polymer Science: Part B: Polymer Physics, 38, 1626-1633 (2000).	
		Xiao, P., Xiao, M., Gong, K.; Preparation of exfoliated graphite/polystyrene composite by polymerization-filling technique, Polymer, 42, 4813-4816 (2001).	
		Chen, G.H., Wu, D.J., Weng, W.G., Yan, W.L., Preparation of polymer/graphite conducting nanocomposite by intercalation polymerization, Journal of Applied Polymer Science, 82, 2506-2513 (2001).	
		Uhl, F.M. and Wilkie, C.A., Polystyrene/graphite nanocomposites: effect on thermal stability, Polymer Degradation and Stability, 76, 111-122 (2002).	
		Modesti, M., Lorenzetti, A., Simioni, F., Camino, G., Expandable graphite as an intumescent flame retardant in polyisocyanurate-polyurethane forms, Polymer Degradation and Stability, 77, 195-202 (2002).	
		Drzal, L.T. and Fukushima, H., Graphite nanoplatelets as reinforcements for polymers, Polymers Preprints (American Chemical Society, Division of Polymer Chemistry) 42 (2), 42-43 (2001).	

Examiner Signature	/Jeff Wollschlager/	Date Considered	12/30/2009
--------------------	---------------------	-----------------	------------

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.